H20 Industrial Router Spec

Description

H20 4G mobile router is a kind of internet of things wireless communication router, use FDD/TDD-LTE 4G mobile broadband network type to provide convenient and high speed net transmission function,

This series of products use high performance industrial 32 bit communication processor, flush bonding real-time operation system as software supporting platform, provide save, high speed, stable 4G wireless router net, it's a wireless router with 1 SIM slot, 2 Ethernet port RJ45 and communication serial port.

It can be used in finance, postal, smart power grids, smart transportation, environment monitor, fire protection monitor, security, water conservancy, public safety, advertising release, industrial control,, earth quake monitor, meteorological watch, instrument monitor.etc

Features

Industrial grade design
- Use high performance industrial wireless module
- Use high performance industrial 32bit processor
- Support low power consumption mode, customized
- Use plate metal CRS shell with good heat dissipation
- Power supply: +7.5V~+32V DC

Network characteristic
- Port flow detection
- Link real-time monitoring
- Multiple VPN protocol
- Support serial port DTU function
- Support dialing as required (voice, SMS or data trigger)
- Support UPnP

Stability
- Use soft/hardware watchdog and multi-level link detection, with capability of fault automatic diagnosis, automatic recovery, ensure equipment working in stable and security way
- Multiple equipment self-checking mechanism, ensure smooth link and alarm
- ESD protection for each port, prevent static shock

Remote management
- Remote parameters configuration
- Remote parameters backup
- Remote restart and log query
- Remote equipment upgrading
- Equipment online monitoring

Details

Functions
- FDD-LTE, TDD-LTE, down compatible to HSPA+、EVDO、TD-Scdma、EDGE、GPRS network
- Support 1 x LAN and 1 x WAN (2 x LAN)
- Provide standard RS-232/485 serial port, support serial port DTU (data transmission terminal) function
- Support hardware WDT, provide anti-log off mechanism, ensure data terminal online forever
- Support multiple VPN protocol (PPTP, L2TP, GRE, IPSec, Openvpn, Zerotier, Wireguard etc.)
- Support multiple functions (DHCP, DDNS, firewall, NAT, DMZ host etc.)
- Support wired and wireless mutual backup

- Support multiple network protocol (ICMP、TCP、UDP、Telnet、SSH、FTP、HTTP、HTTPS etc.)
- Support industrial SIM/UIM card design

Extend functions
- Support WAN port, wired and wireless mutual backup (optional)
- Support dual SIM(optional)
- Support dual LAN port function (optional)
- Support 802.11n (optional)
- Support extend GPS (optional)
- Support SMS (optional)
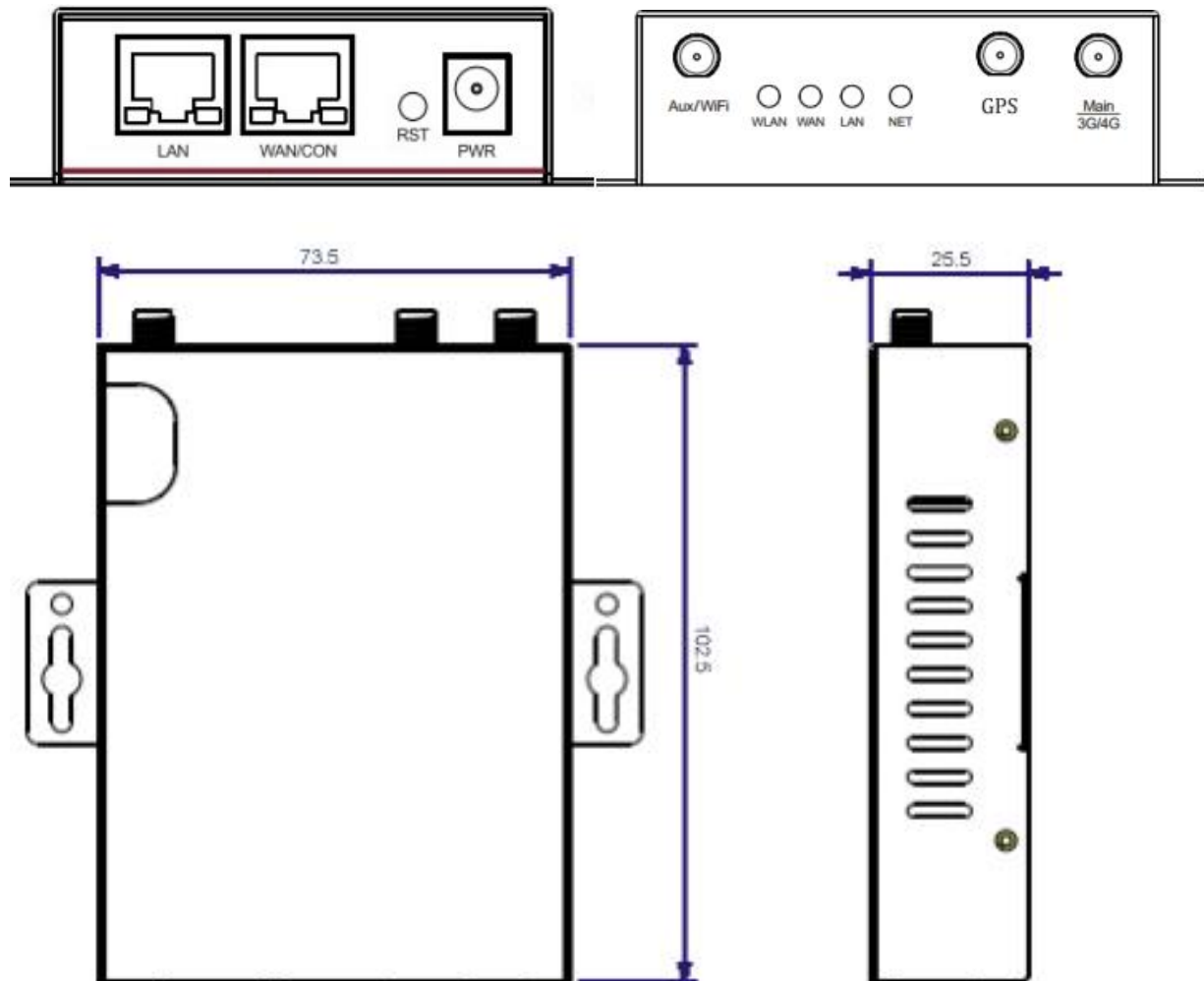- Support OpenVPN(optional)
- Support customization

Specifications

Wireless parameter	
Wireless module：	Industrial grade wireless module
Band：	LTE（MIMO）: 2600MHz / 2100MHz / 1900MHz / 900MHz / 850MHz UMTS(WCDMA): 2100MHz / 1900MHz / 900MHz / 850MHz GSM/GPRS/EDGE: 1900MHz / 1800MHz / 900MHz / 850MHz LTE Wordwide Frequency is acceptable.
Theory bandwidth：	MAX DL：150Mbps ； MAX UL:50Mbps （Category 4，MIMO optional）
Transmit power： Consumption：	23dBm+/-1dB @25℃ Data mode <190mA/12V；Idle modem <160mA/12V
Receive sensitivity：	-97dBm @10MHz QPSK

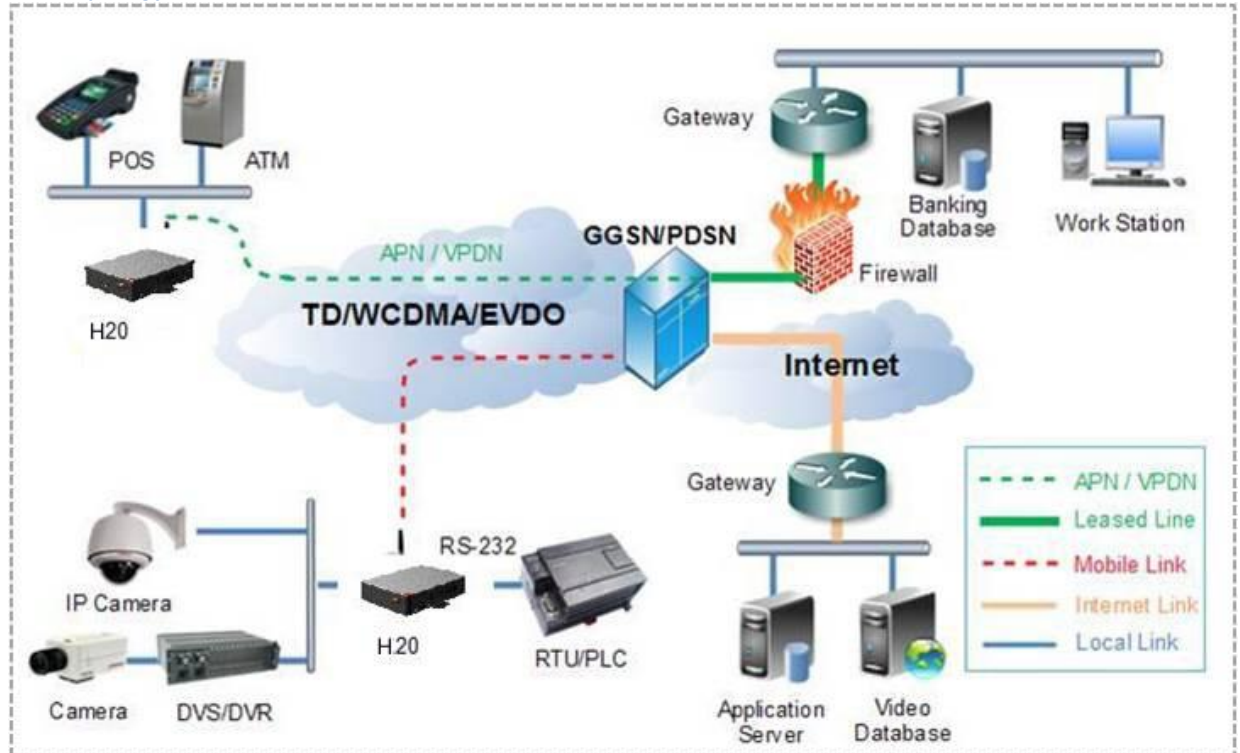| Interface type	
LAN：	1 Ethernet interface(RJ45), self-adaption MDI/MDIX, built-in electromagnetic isolation protection
WAN/LAN：	1 WAN/LAN port multiplex, suitable for wired dialing or used as LAN port hung on two terminals Equipment monitoring port, standard RJ45 interface, support hardware flow control RS232 communication mode
Indicator：	4 indicator lights, "WLAN", "WAN", "LAN", "NET". 3 color lights (red: poor. yellow: general. green: good.)
Antenna interface：	1 Main antenna interface (3G/4G)，characteristic impedance 50Ω；1 Aux/GPS antenna interface, used as 3G/4G AUX antenna or GPS function active antenna；1 WiFi 802.11n antenna interface
SIM/UIM interface：	SIM/UIM engineering card cover, protect the card from falling. 1.8V/3V automatic detection, support one SIM card.
Power interface：	+7.5V~32V (standard DC 12V/1.5A)，built-in power instantaneous over voltage protection and opposite connection protection
Reset：	Press this button, the parameters will return to factory setting

Power supply
- Standard power: DC 12V/1.5A

Appearance
- Housing: Metal
- Dimension: 102.5×73.5×25.5mm
- Weight: 450g

Other features
- CPU：MIPS32 74K Core. 333MHz/560DMIPs
- Flash/RAM：64Mb / 512Mb
- Working temperature: -30 ~ +75℃ (can be extended)
- Storage temperature: -40 ~ +85℃
- Relative humidity: <95% (No condensation)

H20 interface drawing

H20 Topology

Product list

H20	WCDMA standard	EV-DO standard	FDD standard	FDD dual sim	Customized
LAN	●	●	●	●	○
WIFI-802.11n	●	●	●	●	○
WAN	●	●	●	●	○
MIMO antenna	○	●	●	●	○
Dual SIM	○	○	○	●	○
HSPA+	●	-	-	-	○
EV-DO	-	●	-	-	○
TDD	-	-	-	-	○
FDD	-	-	●	●	○
GPS	○	○	○	○	○
RS232	●	●	●	●	○
RS485	○	○	○	○	○
Refer NO.:	H20-WA2T-W	H20-E12T-W	H20-FA2T-W	H20-FA2T-DW	